



**Use Case: Planning to Operations**

**Summary:**

The CIM data repository is updated by the planning administrator. The new planning data is sent in a CIM/XML file to an operation user; the operation user uses that CIM/XML file to update EMS.

**Actors(s):**

Name	Acronym	Role description
Operation User	OpUser	Validates the update file before applying the changes to EMS. Uses the data from EMS.
Planning Admin	PlngAdmin	Updates the CIM data repository with new planning data.

**Participating System(s):**

System	Acronym	Services/Information provided
CIM Data Repository	Repository	Contains generator, reactive equipment, load, dynamic, topological, line and transformer data.
CIM Data Repository Client	RClient	User interface to the CIM data repository.
Energy Management System	EMS	Contains the static model and real time system readings.
Line database	LDB	A non-CIM asset database containing line information.
Transformer database	TDB	A non-CIM asset database containing transformer information.

**Assumptions/Design Considerations:**

- OpUser has a process to validate CIM/XML files.

**Pre-conditions:**

- The Repository is capable of exporting files in CIM/XML format.
- EMS is capable of importing CIM/XML files generated by the Repository.

**Triggers:**

- PlngAdmin updates the Repository with planning data.

**Normal Sequence:**

Step	Description	From – To	Information Exchanged
1a	PlngAdmin enters data into LDB.	PlngAdmin – LDB	Line data.
1b	PlngAdmin enters data into TDB.	PlngAdmin – TDB	Transformer data.
2a	An event trigger or schedule updates the Repository with the new line and transformer data.	LDB, TDB – Repository	Line and transformer data.
2b	PlngAdmin enters data into the Repository using RClient.	PlngAdmin – Repository	Other planning data.
3	The new planning data is sent in a CIM/XML file from the Repository to an OpUser.	Repository – OpUser	Planning data in CIM/XML file.
4	OpUser validates the CIM/XML file. The CIM/XML file is imported by EMS; EMS is updated.	OpUser – EMS	Planning data in CIM/XML file.

**Post-conditions:**

- EMS has been updated with new planning data and is ready for OpUser to use.

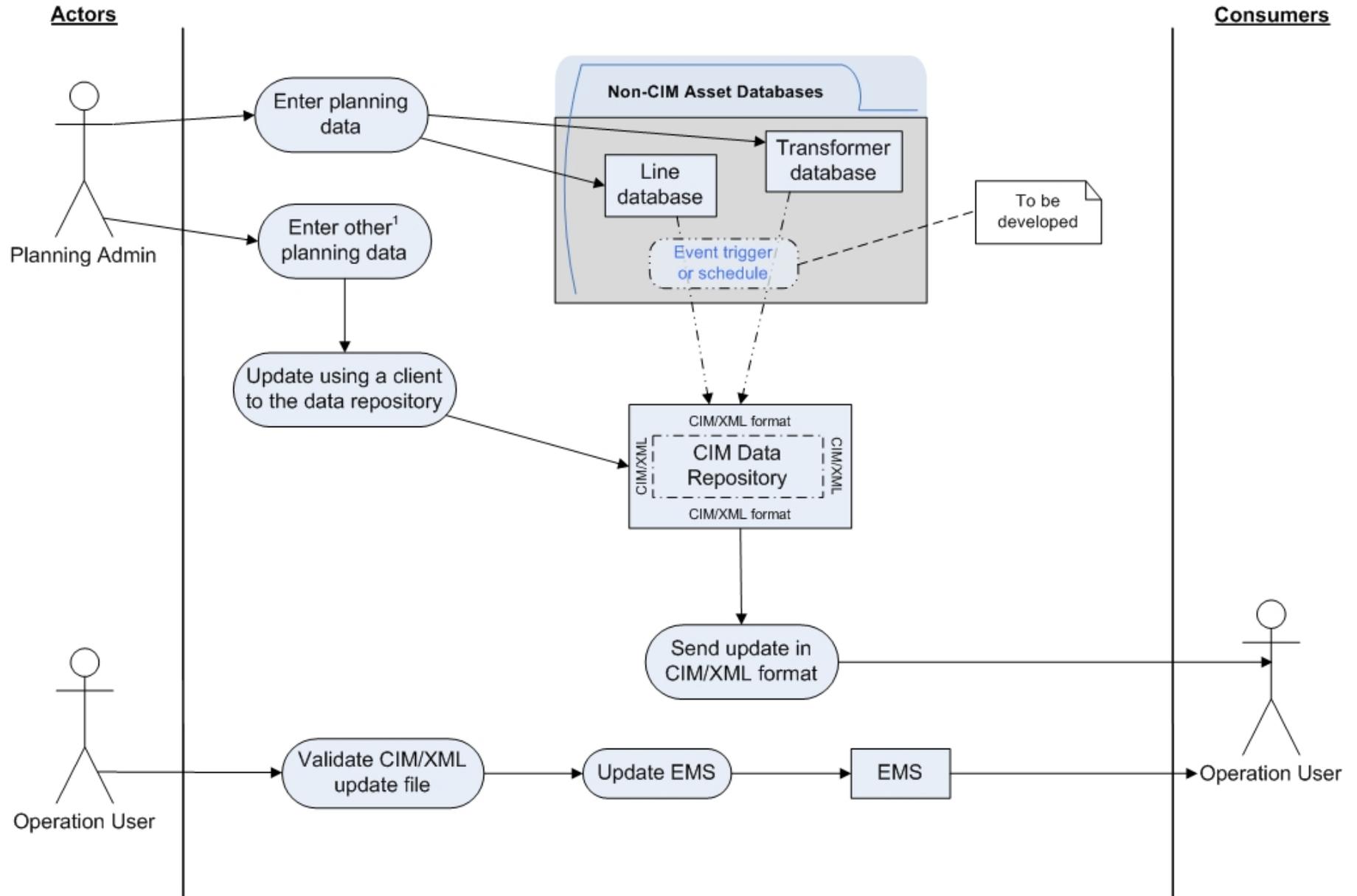
**Issues:**



<b>ID</b>	<b>Description</b>	<b>Status</b>
1		

**Revision History:**

<b>No</b>	<b>Date</b>	<b>Author</b>	<b>Description</b>
1	2006-12-01	J. Ho	High-level draft.
2	2006-12-04	J. Ho	Normal sequence. Attached diagram.



1. Generator, Reactive Equipment, Load, Dynamic